

Fig. 1

Title: GENE SEQUENCES ASSOCIATED WITH NEURAL PLASTICITY AND METHODS RELATED THERETO
Inventor(s): Max Cynader et al. Serial No. 09/301,507 Docket No. 230018.401c1

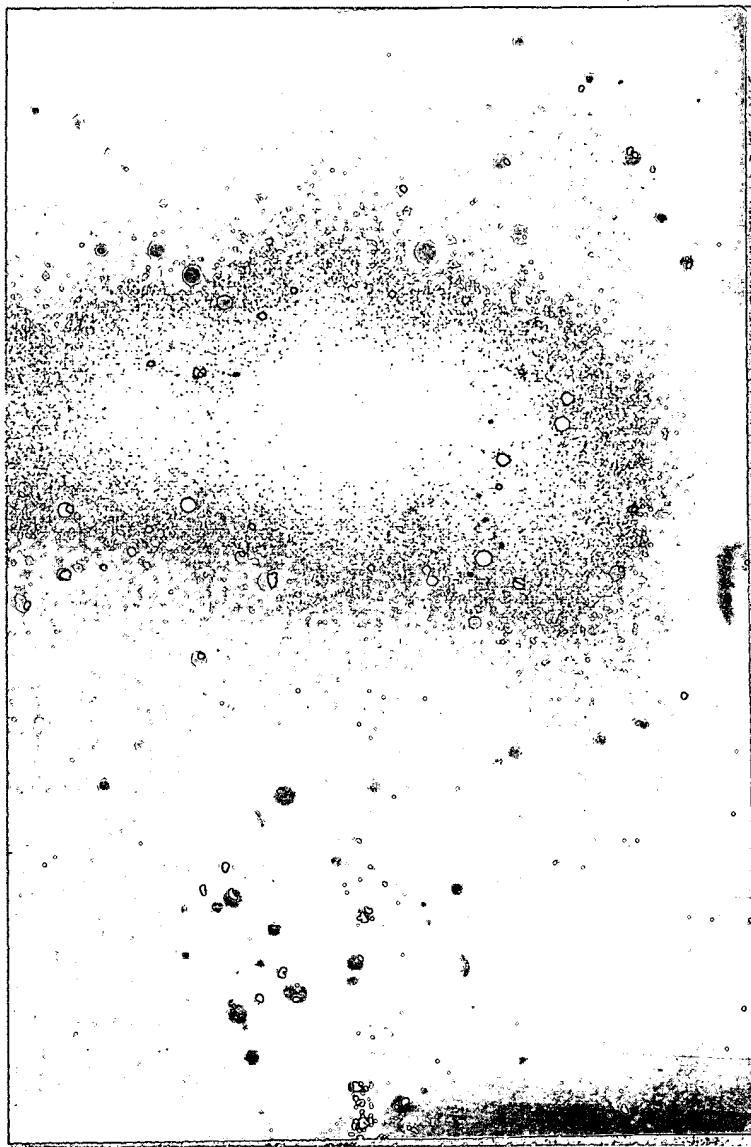


Fig. 2

Title: GENE SEQUENCES ASSOCIATED WITH NEURAL PLASTICITY AND METABOLISM RELATED THERETO
Inventor(s): Max Cynader et al. Serial No. 09/301,507 Docket No. 230018.401c1

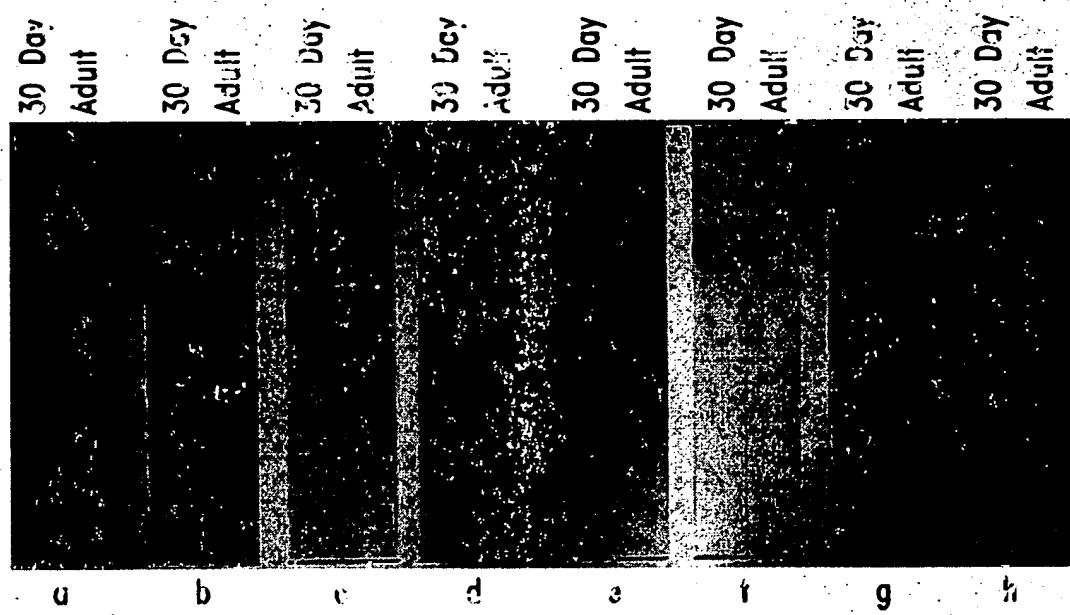


Fig. 3

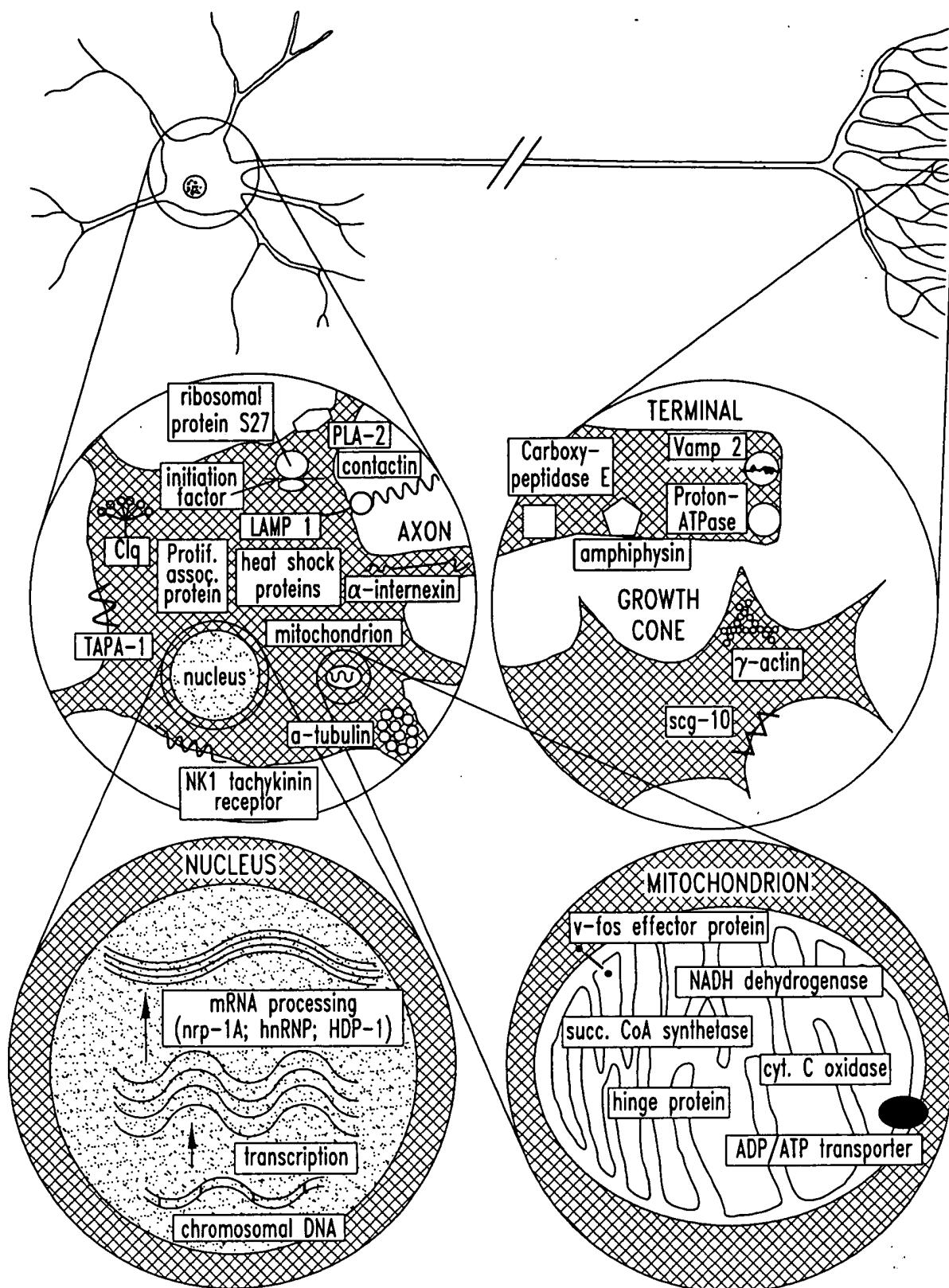


Fig. 4

Title: GENE SEQUENCE ASSOCIATED WITH NEURAL PLASTICITY AND METABOLISM RELATED THERETO
Inventor(s): Max Cynader et al. Serial No. 09/301,507 Docket No. 230018.401c1

SEQ ID. NO.: 1

pKVC43:

CCTGGCTGCCTGTGCCTCAACCCACTCCCAGGGAGACAAAAGCCTTCATACATCTGAA AT

SEQ ID. NO.: 2

pKVC2B:

GCGACGGACGAGATGTCTCGGTGTCCTGCCTCGCTACCAGGTCAAAATGCAAATCTCGTAAAAAC
CCTGACgGGCAAGACCATCACCC

SEQ ID. NO.: 3

pKVC15:

TTTTTTTAATTGAGAAAGACATAATGGTTATGGCATTGGCTTGAAACCAGTTAACACCGTTCGATT
CCTTCCTTCTTATTTAATAGTACGTtAAGTTGGCTTCAAAT

SEQ. ID. NO.: 4

>pKVC24BR

poly(T)ATCCATACTGCTATTATTTAGGCTTAGTTGGAAACAAAGGNCAAGAGTTAAAAAAAT
GCCAACATTCAGGACCCTTGTT

SEQ ID. NO.: 5

pKVC26B:

CTTCCCCACTCATCCCTGCTCTGGCCCTTGTgCCCCTGGCCCTTACCCAAGCACCACCCACAG
ACTGGGGACCAGCCCCCTCCTGCCTATGTCTCgCCCCAAAT

SEQ ID. NO.: 6

pKVC50B:

CCTTCCCTCCTACTTAATAGTCGGTAGTACGGANGTTAAATCTTCAGGTGGTACGCAGCCG
GGCAACCATGCAATGGATTNAAGGTNGGTATGGTACAATTGGCCTATGCCACTT

SEQ ID. NO.: 7

pKVC85B:

CTTAGAGCGCACTCAGGGGACTTGNAAGGGCTTCACGAGCGTGGCTGGCCATCTGTGGAAAGA
GCTTCTCGAGTGNCTGGTNGNNTTATCCCCACGCCNTAGNGCACTACTC

SEQ ID. NO.: 8

pKVC100:

TTAGTTCACATTCAAGGGGCTTATGAAGAGATGCAAGTCAGGATACTAGGCTTGATT
TTGGCAGCTTAATGAGTATTCACTGAGGACTT

SEQ ID. NO.: 9

pKVC94B:

CCGCCTGATATAGACACTCGTAGAGCGTAGTTGACTATTCTATACGTTCTATTATTGATGAGGA
TCCTAAA

Fig. 5A

Title: GENE SEQUENCE ASSOCIATED WITH NEURAL PLASTICITY AND METABOLISM RELATED THERETO
Inventor(s): Max Cynader et al. Serial No. 09/301,507 Docket No. 230018.401c1

SEQ ID. NO.: 10

pKVC90B:

TTTATTATGCACACGTTCAAATAAACCAGTGTGGGATGTTAAGACTATCAATTAAATGGTGGGATTA
TGTTTGGCATTTTATTNNNTATAAATATATTTCTGAATGTGTCTGAGNTCCAAGAGGTTGGG
GGNGGGGGNG

SEQ ID. NO.: 11

pKVC91B:

TTTCCTGGGTTGCTGGTTGGATTAATCTTAATAACAATATAGAATTGAGACTGATGTTTAGTG
TTTTCCAACACACAAACATAAAAACAAAGTCGGACCGCTACTTCTGTGAAATCAAGATCNTT
GGGGAA

SEQ ID. NO.: 12

pKVC101B:

CCTGGCCAGCGGGCAGGGCACGAAGGCAAGATCGGTGTTGTGTTTCCAAGGAGACGANCC
NATNANCTGAAATATGTACACGNTCTGTGTGTCCTCGNGGNAGG
ATGGTCGGNTCTATTTAA

SEQ ID. NO.: 13

pKVC103fb:

CCAAAATATTTGGGCCAAATGTTCCGAGGATGAGTCAGGCTGTCCTCGCGCGGGCGAGACGAAGCT
TCACACGGGACAAGATGGGATGGGTTGGAGGAATGGATGGTCCCCAAACA
ATGGGCTTANAANAATTAT

SEQ ID. NO.: 14

pKVC105:

TTTACTGACAAGCATGGGAAGTGTGCCAGCTGGCTGGAAGCTGGCAGTGATACCATCAAGCCTGATG
TCcAGAAGAGCAAAGAATATTCTCTAACAGCAGAAGTGAGCGCTAGGCCTTT

SEQ ID. NO.: 15

pKVC107:

CGGCTTCCTGGCTTATCGTATGAGCCCACATGTTACTGTAGGAATGGATGTAGACACACGAGC
ATACTTACATCAGCCACTATAATTATTGCCATTCCtACCGGGGTGAAAGT ATTTAGTTGACT

SEQ ID. NO.: 16

pKVC1B:

GGAGCTTGAAGAAGAAGTTTTACCAACCGTCTTTCTACTTATACAGAAGTAGATATTCTGCGAA
GAAGAATAATTGGGTAATATGCAAGCTAGTAGATGTGGCACAGCAAATC ATATAATAA

SEQ ID. NO.: 17

pKVC5B:

ACCCCACCCAGAGCCTGGAATCAGGATCCCAGGGTCTAGCCAGCCTGGGTCCAGAACCCAGAACATCCAG
CCTGTCTGAGCTGGACCTAGCAGCCAGAGTCTAGCCAGCCTCGCTCCAAGAGGGGCTCTGGTGGCCTA
GGTAGACAGGCCTGggTGGGATCAATGAGTTGGTCTAGGCCAGGGCACCTGACTCTGCTCCATAC
TG

Fig. 5B

Title: GENE SEQUENCE ASSOCIATED WITH NEURAL PLASTICITY AND METABOLISM RELATED THERETO
Inventor(s): Max Cynader et al. Serial No. 09/301,507 Docket No. 230018.401c1

SEQ ID. NO.: 18

pKVC7:

CACCTTCCTGAAACACCTGTGGCTTGACTTGTATTGATCCAGATTATTCTCCTGCATTGGGAAA
ATATCTTCATATTCAGTAAAGGGATGGTTTGCAGAGTAAGTTAATGTCAGAACAAACTGCCAAT
ACAAGAGCCCAATGATATTACATGAGAAAAaGTAACTA ATACATCC

SEQ. ID. NO.: 19

>pkvc55R

GAGAAAGAAAGAGATGTTTATTAGCATTGTTACAGCAACGgTGACGTGAAGGGTGTCCGTGACAG
CCACCGAGCGGCAAGGCAGTGGCCAGAGCTGACACCCAGTATTACAGAGTCAGAACAGGATCACC
CCGAACCTCAAACAGAAGACTGAAAGTCACTTACAAAAAGGTAATAAAAA

SEQ ID. NO.: 20

pKVC13B:

GCTACGGTCGACATCACCATCTTATCCCTTCCAGCCCTTGCTGGTGCAGGGCCTGGGAAGATGCC
AAAGAGCCGAGCAGTGGTGGCCAGCGGGCAGAGTGTCCCTGCTGGGCCAGGAAAGCTTACCTC
TCTGAGCGCCTCTGCTGAGAGATCGATGGTCTGTGGCTCA GGAGACCACGTCTGGAGTG

SEQ. ID. NO.: 21

>pKVC6R

poly(T)CCTTCTTATTGAATGACTTCAAGAgTAATTACAGTTGAAGGTGACAAGTTAGAAAGGAG
AGGTGCCACTGAAGGCATAAGGCTGTTAGACCCGGCTCTAGACAAGTGGCAGGAGAAGAAAGAGGG
TTAAAAAAAGGCATGAGCGTGCAGCCCACGGGCA

SEQ ID. NO.: 22

pKVC16B:

GGCAGCACTCCTATTAAACTGGAACCTACTGAGGTTCTCGTGTAAATTAGGAACAGAGAACACgt
tCCACGAGGGAGCCTCCAGGTCTAATTACCTGCAACCTCGCTGTACCTGCTGGCAGGAGGGAGCCAC
CAATAGCAATTACTAACGAATGGCTGAATTCTTATAAGACCTAGGGAACCTGATGGGAAACTGAATT
GCTAA

SEQ. ID. NO.: 23

>pKVC74F

TTTTTTTTTTTAATTTTTAACGTTATTTATTTGAGACAGAGAGAGACAGAGCATGAACGGG
GGAGGGGCAGAGAGAGAGGGAGACACAGAACGAACTGGAGATGCTCAGGCTCTGAGCCCATCAGCCCAGA
GCCGACGCGGGCTGAACTCACGGACTGTGAGATGTCACCTGAGCGAAGTCAGACGCCAACCAAC
TGAGCCACCCAGGCGCACCATC

SEQ ID. NO.: 24

pKVC29B:

CCAGGTGACAGGGAGCCTGCAGGGAGGGTCTGGGTGTTCCCAGGAGCCAGGGGAAGTGGGAATGGTGCA
GGCAGTATTGGAAGGAAGGCCAGTCAGTGGACTGGCAGCTCAGACAGGCAATATGGGAAGCATTGGA
GCTTGCAGTCTCACTCTGGGTTAGGGGTTGCACACTCAGCAATAAAACTGTGTACACACCAAAATC
CTAAATATACATACAAA

Fig. 5C

Title: GENE SEQUENCE ASSOCIATED WITH NEURAL PLASTICITY AND METABOLISM RELATED THERETO
Inventor(s): Max Cynader et al. Serial No. 09/301,507 Docket No. 230018.401c1

SEQ. ID. NO.: 25

>pKVC79R

poly(T)GTGTTAAGTGGCTTTATTGGGGTGTACATTAGGTTATCTTCTTCATTATCAGTTCTTCAG
TTAATTGTACAAGTATGATAAGTTATTTATATCTGACGTGGAAATTAAATGTAAGATAACAAAA
TACATCTGTGGTTAATGAACACTCAATGAAGAC

SEQ ID. NO.: 26

pKVC30:

ACAAACAACGTGAGGTGCTTTGTGTGGAGTGTGTGGATCTGTTGGTGGGCCGGGGGCCAGGAC
TCAAGGAGGACCCCTGGAACGTACATGTGCGGGCACAGGGCACCTACGGGCTGCTGCGGCGGCGG
ACGACTGGCCCTCGCGCTGCAGATGTTCTTGCCAATAACCACGACCAGGAGTTGACCCCTCCGAAGT
TTACCCA

SEQ. ID. NO.: 27

>pKVC7R

poly(T)ACACAGAACAAAGAAATTTATTATCTGAATGCTGGTCATAAgCAATAACAAGCTCATCAA
TTAGAGGAGGAGACAGAGGGAAACTCAGATACTGATGAGGATTCTGGCAGGTTAAAACCTTTAAA
GATTGAGGCCATAATTGttCAGTCTTTTTT

SEQ ID. NO.: 28

pKVC32B:

CCTGCCAACGGCCGAGGCTCCACAGGAATCAGAGTTGGACGACNNNNGAAGGAAGCGTTGGCTTCAC
ATTCTAGAGAAAGAACCCCTACTGGCTGAGACCCCTCCAGGGCTGTAGGAAAGCTGCTGGACCTCT
TCTGCTCTCCCCAACCACTCTGCCACTCTGCCAGTTACCAAG TCACCAAG

SEQ. ID NO.: 29

>pKVC45BR

TTCAGAACATGTTTTTTTTTTTTAATTGTTGGTTGTTTGTAAATTAAAGAAAGGT
ATTTGCTTGAGGAAAAAAACTCCAGATTCAATTAAATGAGAACATTGAAATGTATTATCTTAGG
GCATTGGGGCACTTAATGCCTGTTGGCCTCCGGCCTCTGGAAATAAGGTCCAACGG

SEQ. ID. NO.: 30

pKVC34B:

CCTGCCAACGCCATCCTGCGTCTGGACCTGGCTGGCCGGACCTGACGGACTACCTCATGAAGATCCT
CACAGAGCGCGGCTACAGCTTACCAACCACCCGAGCGGAATTGTGCGTGACATCAAGGAGAAGCTC
TGCTACGTGCCCTGGACTTCGAGCAGGAGATGGCCACCGCCGCGTCTCGTCCTGGAGAAGAGCT
ACGAGCTGCCGAC

SEQ. ID. NO.: 31

>pKVC89BF

ATTGTGATAGAACGACCGGTGGTTCAANCANGTTGAAGNAGTTCCGCNTTCCCCTCCGGGGAAAG
GTTGTCGATGTCTNTGGTNNTAAGTANTCACCCATNCATTGTTGACAAGGNTCANTCCGAAGGGTCA
TTCTGAGTAGACCAATATTNTAAAATAATTNAATCCTT

Fig. 5D

Title: GENE SEQUENCES ASSOCIATED WITH NEURAL PLASTICITY AND METABOLISM RELATED THERETO
Inventor(s): Max Cynader et al. Serial No. 09/301,507 Docket No. 230018.401c1

SEQ ID. NO.: 32

pKVC34:

AATTGAGAAAGACATAATGGTTATGGCATTGGCTGAAACCAGTTAAAGAGGGTCGATTCCCTCCTT
CTTATTTAATAGTACGTAAGTGGCTCTCAAATGTGTGGTACGGAGGAGGACATCCATGCAATCATT
CAAGATTAGTTGTGGTTAATTCTACTATGCCACTTCTCGCTTGGATGCGAAAGCTTCTCACACTATGA
AAA

SEQ ID. NO.: 33

pKVC36B:

ACGCTCGTTTCAAAGAGAAGAGCGTTGTTAGAGTAGCGAAATTGAAGGCTGCTTAGGCGCATTGT
AAAGCTGTTGGGAAATACTCCACAAGTTCGTGAGTGGAAATGTAGTGCTGAAACACATTCTGCTT
TAAAAGGTTGAACAAATACAAACAAATTAAAAAAAGCTCT CGAAAA

SEQ ID. NO.: 34

pKVC43rB:

CTGGAGCGCAAGTACTCCGTGTGGATCGGTGGCTCCATCCCGGGCTTGGTCCCACCTTCCACAAGTG
TTGATCACACAAGCCGGAGTACGCGCGCGGTTGGCCCCCTTCATAGGCCACCGCAAAAACTTTAGGC
GGGCTTACNTTAGAGGCGGTACACACCTCTTG

SEQ ID. NO.: 35

pKVC73:

TGGGCATCAAATGAAAGAGATACTTGCAAAGGCTCTTGAGGGCAGGGAAAGGAAAGGAGGACTGTCTG
CTTGGACCTAAACTGGACAGGGACTAGGTATTTGATGTTCATAGTTGCTCTAAGTTCAAGTTCAT
TTGAGTAGCAGACCTGACAAGCATTGAGGTCAAAACCTACCATGTGTAAAAAAAAAA

SEQ ID. NO.: 36

pKVC79B:

GTCTGATACAAAGCTCTGTGCTAACCTCAGACTATTAGGCAGGGCAATAGGGTGTAAAATGTATCT
GCTCTCTCAAACCGCGCTAANGNTCTAGTCCATGTCCCNCNNCAACCNNCAANATCCCACNAGGG
GNAGNTCG

SEQ ID. NO.: 37

pKVC81B:

CCCAGGTGAACAGGAACAGGTTTCTCATAAAAAACACAAAAATCCTGCCATTCTTACTT
GNATGTGGAAAAATAGATCCGCCCTTATTGNTGAATAGCCTAAAACTTTGAGAATATTCTTAGNA
AATTAGGGGGGGNGGGC

SEQ ID. NO.: 38

pKVC83B:

CATCTAGATANTCTGGNGATTGGGCCTCTAGNTGATTGCTCGAGCGGCCAGTGTGTTAAAGA
CTGGCTCAGGGCCTGTGCGAGGTGCTGGTGGTACCAAGGAGGTGGAGGAAAAGGGCTGCTGGNCT
GCGGNACAGTACTGACCCCGCGGAGGTAGTAGCAACCAGGTCCACCGTACCCCTGCGAGTCCCCGCTG
CCAATCCCC

Fig. 5E

Title: GENE SEQUENCE ASSOCIATED WITH NEURAL PLASTICITY AND METABOLIC RELATED THERETO
Inventor(s): Max Cynader et al. Serial No: 09/301,507 Docket No. 230018.401c1

SEQ ID. NO.: 39

pKVC87B:

CCACCAAGAAGCTGGACCTGTGGATGCTGCCTGAGACACTCATTATCCACCTGAAGCGCTTCTTTACA
CCAAGTTCTCCCGCGAGAAGCTGGATACCCCTGTGGAGTTCCCATCCGGGACCTGGAACCTCTCCGAG
TTTGGCATCAAGTCGTAGGAACGAGTCGGCTCCGGAGCTGTACAAATACGCATCTCATCGNGGGNTNC
CATCNCATTNATGGGGG

SEQ ID. NO.: 40

pKVC104fb:

GGCGAATTGGGCCCTAGATGCATGCTCGAGCGGGGCCAGTGTGCTCTAAAGCCAAAATATAATTGAG
GCCAAATGTTCCGAGGATGAGTCAGGCTGTCTCGGGGGCAGNAAGGCTCACACGGGACAAGTGGAT
GGNTTGGAGGAATGNATGNTCCGCAACCATGGGCT

SEQ ID. NO.: 41

pKVC104:

CTGACTGGCCCAGAATTTGAATACTGGAGGCAGTCTCATTGGCCTCCCTCATTAGACTCCAGGATTG
GGTCCAGCCCCGAGACCCTGTGGCTCCTACCAGTCCAAAAGTCTAGGACCGCTTGCAGACCCAGGAAA
GGAATTTCTAGTGTCTACAAAGGCCAATAGAGAGGGTGGGAGTGGGTGGGTGAGGACCGGTGGCGA
GAGGGG

SEQ ID. NO.: 42

pKVC109B:

GCCAGATTTACATAAGAACATGCTTAACAGACGATTTAGCTGACGTCTTACCAAGNAATGCCAAG
TCCGCACGGTAAGTAAAGAGGAGGCCAGGTCAAGAGTTGCTTAGCAATAGGTCAAGTCAGGTCACTAAA
ACTGTAAATCCATTGCGAGAGGGGGACGCCCTCGCTCAAGCT TGGCTGGCTTCGGC

SEQ ID. NO.: 43

pKVC89B:

GTCAAAGAGACCAATCCATATCCTCATCTGATTCCCTCGACTCTTCTTGCTTCAACCTTGGCTGG
GGCTGCAGCAGCAGCAGGTGCAGCAGTGGTGGCAGCGGCCACGGGGCAGCAGCCACAAATGCAGATGG
GATCAGCCAAGAACGCCCTGGACCTTTCAAGCAAGTGGGAAGGTATAATCAGGTCTCCACAGGACAA
AGGCCAGGACCCGCTTATTTCCATTGGATGGATAGGAATGGGGGACTGNATGCAAACAGGNCGGGG
TTNACCCTTCTTGNAGGACCATT
TCA

SEQ ID. NO.: 44

pKVC115:

GCGCAGGCACAGCTGGTAGGGCGAGGCCAGACGCCAAGGTGGCCACCATGGTCCGGAGTGCCTGC
AGGTAGTGGCTTCGTACGAGCTTGTGGATGGCATCATCGTCACCACGTCCACCAACGACT
GGGTGGTGACCTGGCTACACCATCCCCACCTGCCGCAAGCTGGACGAACGGCTCCAAGGGCTGT
GGCAGACTC

SEQ ID. NO.: 45

Fig. 5F

Title: GENE SEQUENCES ASSOCIATED WITH NEURAL PLASTICITY AND METABOLISM RELATED THERETO
Inventor(s): Max Cynader et al. Serial No. 09/301,507 Docket No. 230018.401c1

pKVC20fB:

CAAACCCATGCATACCACATAGTCAACCTAGCCCAGGCCACTTACAGGAGCCCTtCAGCCCTCTTA
ATAACCTCAGGCCCTGGCTATATGATTCACTACAACACTCAACACTGCTGTAAACCTTGGAAATAACTACC
AACCTACTAACTATATCAATGATGACGAGACATTATCcGAGAAAGCACATTCCAAGGCCATCATACA
CCTATCGTTAAAAAGG

SEQ ID. NO.: 46

pKVC7B:

GCGCCCGCCGCGTCGCGCCGCCTCACCGCCGTACCACCCGCCCTCTGCAACCTCAGCCCACCGG
GGCACCCGGCCCAAGGTCACTGGCGGCCAGGCGCAGCTCCTGGAGGAATGACCAGCTCATCCGCTGT
ATCGTGGAGTATCAGAACAAAGGCCGGCGAATGAGTGCCTCAGTACCAAGCATGTGTTACACAGAAAT
CTCATTATTGGTACCATCGCAGATGCCAACCCC

SEQ ID. NO.: 47

pKVC92:

AGACCAGCCGGTGACAACCACTAATCAAGTTCCATAACTATATAGCGCCGCAATTCCATGGCCTCCTC
ACTAAAGAACCTGAGTCACCTGTATCATAATCACCCAACTCACCTGCACCGTTAAACTAAATACGAC
TTCTACCTCATCTCCTTAAAATATAACAAGCAGTTAATAATTCTGCTAACACCCCCGTAATAAACAT
TGCTAGTA

SEQ ID. NO.: 48

pKVC8:

TGAGGTTGATTATTGGTGGTATTGTTACTGTGTAGAAATAGTAGGAGTA
GATTTAAATAGATTGTTAGTTAAATATTAGCCATAGAACTGTTAGTATCTCAGTAGTTCATGAA
AGCTTTCTGTATTCTAATCTATTGAGAAATTTCGTCCTTTTTAATTGTGCTTACAGTTC
AAGTTGTAGATTAAATAAGCAACAATTAAAGATGCGGTAACTTCCAACATAATTATCCATC
TTCATGGCCCCACAAC TGCA TTTAAT

SEQ ID. NO.: 49

pKVC8B:

CTAACTGCATTCTCTCTCGTTCATCCTTGGGCTGATTGATGAGCCCTTATTCTTATCTAAAA
ATCAACAGCAAGGTCTACTTCACATGCCACTCCAGTCCTTGAGCTATAATCAGGATTATATAACTTA
CCCTCAAATCAAAGTTAAGAAAAAGGAAGCCCATAAGCTAAGGCAGTGAATCTTCCTGACAATTTC
TAGAGGTAGAATTTCATCATGCTGCAG
AGAAATGAAAGAG

SEQ ID. NO.: 50

pKVC14:

ATAATGGTTATGGCATTGGCTTGAACAGTTAAAGAGGGTCGATTCTCCTTCTTATTAAATAG
TACGTAAGTTGGCTTCAAATGTGTGGTACGGAGGAGGACATCCATGCAATCATTCAAGATTAGTTGT
GGTTAATTCTACTATGCCACTTCTCGCTTGGATGCGAAAGCTTCTCACACTATGAAAATTAACAT
GACTGCTGTTAATGAGATGAAAGAGCCATTGAGGAATCGTATTCAAGTTGTATGCATCTGGATA
GTCAGAATAAC

Fig. 5G

Title: GENE SEQUENCE ASSOCIATED WITH NEURAL PLASTICITY AND METABOLISM RELATED THERETO
Inventor(s): Max Cynader et al. Serial No. 09/301,507 Docket No. 230018.401c1

SEQ ID. NO.: 51

pKVC16:

TGGTGACACACGTCTTCAGTCACCAGTGGAGATCACCAGGAGCATCAGCAGGAAGAGGCCAGTGGGCC
ACAAGCTTAGCAAGTTGATCAGGATAGGGTATTGGTGGATAGACCATGAGTGTCAAGGGACCTCCAC
TGGACACCACCCCAGAGGCTCAGGATGCTTTCGAGGGAGGAAAGGAGAAAGACCTCTACTGAGGGAAC
AGCTGGCGTGTGTTGGCTGAGGTGACGTACAGGGGCAGAGCTTCGAGGGATTTCAGATGATCC

Fig. 5H

Title: GENE SEQUENCES ASSOCIATED WITH NEURAL PLASTICITY AND METALS RELATED THERETO
Inventor(s): Max Cynader et al. Serial No. 09/301,507 Docket No. 230018.401c1

SEQ ID. NO.: 52

pKVC20rB:

TAAATAGAACGTATAAGAATAGTCACACTACGTCTACGAAGTGTCAATATCAGGCAGGCGGCTCAAATC
CGAAGTGGTATTGATGTAAAGTGTATTTAGTTGGCGTAAGAAGCATACAATTAGGAAAGTAGAGC
CAATAATTACATGTAGCCATGGAATCCTGTGGCATGAAGAAGGTAGATCCGTATACTCCGTCCGAGA
TCGTGAATGATGTTCATAGTATTCTGGAGGCTTGAGGAGTGTAAAGTAGACTCCTAAAGAGATTGTA
ATAAAATAGTCTTGAAG

SEQ. ID. NO.: 53

>pKVC59BR

poly(T)GTTTTGTTTAAAAATGAGTCTTTAAAACCATGTCATACATTCCCCATACTGATATCG
CATGACCCNTTANAATAAAGGCAGGGGGNTTACTAATGGGGGGCGGGCCANACCCNCCATGTTCA
GCCAGACAGTTCAACCCGGGNNCCTGTTCTGCGGACCTCCGGGNANGCCTTCCTTCCAAAAAA
GGGGGCCGNTCGGAGNATGNATNTNGAGGGCCCATTAG

SEQ ID. NO.: 54

pKVC21B:

GCGCTCTGACCAGGCATCAGTTTCTGGTGTCTCTGGCTAGCCTGGTATGTAGGGCCAGGCAGAC
AGGCAGGCAGGGCTGAACAGGGTTCTGCTCCAGGAAGACCAACACAGAGGACCTTACAGGCAGG
AACCCCACAGACTGTCCAACCCACACACTCCACCACCTGTGCCCTGTCCCATGTCTGAGCCAAGGCC
TGAGGTAGAAAGTCACCTGATCTGTATCTCATAGGGCCTGACTTT

SEQ. ID. NO.: 55

>pKVC61BF

poly(T)CCCNAGNGCACACNGGGGGCCNTAANNAGNGGNTCCNAGNCNNAGNNTGAGGCATA
GCTTNAGNATTNCNATAGTGNANCACAAATAGCNTGGGNAATCANGNCAAAGCCNTTCCGTNGAA
ATTGTNATCCNNTCANAATTCCNCACAANATACGGGCCNGAAGCATAAAGNGTAAAGCCGGGGGCC
AANGNGGGNGCNAACTCACATTAAATNGCG

SEQ ID. NO.: 56

pKVC23:

GGGAAATGTAGTTGGATGCAAAGCTGATTAATTGGATCAAGAAAAATTGGAATTAAATACATACAAT
AATGCATGCATTATGGTTCTGATTTATATATCCTAGCTAGTTGGAAATGATGATTCCCACAAACAA
GCATAACTCAGCTGTTCTGTTACTGAGTACTTCTCCTATGGTATATGTTGATAACATTCTCCA
TTATGTATGTTGCATACgAGAGTTACAGTTACT GTGGGAATCATAATT

SEQ. ID. NO.: 57

>pKVC9R

GTCACCATTAAATGTCTgATTTTaAACAGATTCTGGACTGGTGGCTATATCCATCAGCTCGCTAA
CTTAGCACCGGTCTCATCCCCAGTAGCTTTCCAGAACTGCTACCTCACCATGAAGCTCCATGAGCT
TTCCAATTCAAACCTGGCTTCTCAGCATTTCAGCTAACGAAGTCATCATGAAGTGGATAAA
TAGACTGACAAGCCTCTATGCTTTCCGATCTGCTGGAATCAATTATTGACAACCTCTTCAA
GTCA

Fig. 5I

Title: GENE SEQUENCES ASSOCIATED WITH NEURAL PLASTICITY AND METABOLISM RELATED THERETO
Inventor(s): Max Cynader et al. Serial No. 09/301,507 Docket No. 230018.401c1

SEQ ID. NO.: 58

pKVC28B:

TCATAGCATTCTTCTGCTTCTGGATTATGTGCTACAAATGTGCTTGCTTAGAAAGGGATGGA
TGAGAAGACAGAGCTGAGATCAACCTGGTAGAACGAGAAAGTTAACCCCTTAAAAGTGCTGAACACA
GATTGAAATCCAATGGTTCAAGCAGCCATGAAATCGCTTCAATGAGTGGCTTAATTCTAGTTT
AAGTTCTTTGATGGAATGAATTAATTATGTGTCAGGTGGCTTATTGTGGATGCATGATTGATGATG
TCATT

SEQ ID. NO.: 59

pKVC29:

CGGACCCGGACAGAAAGCAAATCCTGGAGCGCACCCAGCGTGC GG TG GGG CTGGCCGAGAGCCCCTGG
AGAGAGCCGTGCGGgNCGGCCTCCCGCAGAGGAGGCCGCTGCGCAGAGGTGTTGGAAAGAAG
CGAAAGATTGCTCTCCGACTGGTTGGACTCCACCCCTGGCAGCGAAGTTACGGACAATTCTATTTCT
CCAAACTGCCAAGTTCTGGGAAGAAGAATTCCACAGAGACATGGAAACCCCTGAACGTTCTCCCTCCGG
ACGTCC

SEQ ID. NO.: 60

pKVC38:

CGAATCTGTTAGCAGTTCAAATGATTGTGGAATTGGATTTAACCTTACCATTTGCTTGT
ATCGACACATTTTCATTTAACGTGTTAACTCATGTACTGTTACTTAGGAATAATGCAAATCCAACC
TTCATCCAGTGTGAGAATAGCAGTATGATAGGAATTGCTCAATGTGCTTAAATGAGTAATTGCTT
ATCTTTTTAGTATCTGATAGACTTGCATGACACGGTACACTCTAATTATGCATTCTTAGTTCCA
AATCTAACCTAACGACATTCTATATTAACTGATGGTAGCTGAG

SEQ ID. NO.: 61

pKVC48B:

GGTTTGCAGGGCAAGTGGGCTGGGCCCGCTGGTGAGAACCCGCCACACTGCAGTGGGTGCC
TGGACCCCGCAGCGCTGAGCAGACGGTGGACTCTGGCTGTCCTTGGCCACTGGGGCC
GGCTCTGTATATAGCTGGGCTATGGCATGACCCCTTTAAAACCTGGGTCTAGGACACCTG
GGTTACCCCTCAACTAAGGGAGGGTGGAAAGGGATTACTTGGGTCTCAATAATTACGATATCCCT
TTAAGGTTGACCATTAAACTGTCCCC

SEQ ID. NO.: 62

pKVC51B:

CCTCTTAATAACCTCAGCCCTGGCTATATGATTCACTACAACACTCAACACTGCTGTTAACCTTGGAAAT
AACTACCAACCTACTAATCAATGATGACGAGACATTATCCGAGAAAGCACATTCCAAGGCCA
TCATACACCTATCGTCAAAAGGCCCTCGATACGGAATAATCCTTTATCATCTCAGAGGTATTCTT
TTTCGAGGCTTCTGGCCTTGTACCACTCAAGCCTAGCCCCAACCCCCCGTAGCTAGGGGG

SEQ ID. NO.: 63

pKVC53B:

Fig. 5J

Title: GENE SEQUENCES ASSOCIATED WITH NEURAL PLASTICITY AND METABOLISM RELATED THERETO
Inventor(s): Max Cynader et al. Serial No. 09/301,507 Docket No. 230018.401c1

SEQ ID. NO.: 69

pKVC69:

TGGCTGTATCTGGAGGCTTCTGCCTCAGCTCTGAAGGCTGCTCTATTCTTCTCGCGTGTCCCGT
CCATCTCAAATTCTCAATGGCCCATCTCTCACGCCCTCCATCCCTGCCTTCTCCTGTGTTAA
GGTCATGTGATTAGATCAAGCCCAGTATCAAGTCTCCCTATTTAAGGTAGTTCTGCCATAGAAC
TAACATAATCACAGGAGTGACTGCACAGGCACGGGTTCTGGGATTTGGCATGGAGTTGGGG

SEQ ID. NO.: 70

pKVC74:

ACGCTAAGGACACCTTTTGTTCGACCTGATGTTAGATGGCAACACCAAGTTCTAGAGCAATT
GAGAGACTTGTCCAAGGTACAGGATGGCTTACCTCAGCCAACATATAGTTGCAGTGACAGTATGTG
TGCTCTGAGGGTTACTGAAAACCCCTGTCAAATATTCCTGTGGACACTCAGCCTTAAACTCCA
AGCCTCATGAAGAACTTATTGGGGGGGGGGCGCTAAATAATTCAAGTCGGTTGAGCGTCTGACTTCG
GCTCAGGTATGATCTCACAGCTC GTGAGTTCGAG

SEQ ID. NO.: 71

pKVC86:

TGCCTAGAACATCTGTTCTGTGGAGGTGTTGATAGAACCGGCCAGTCTGAACCAGAAC
GAATGTTCCCTGTCAAATGTTCTCACAGAGAAATGGACAAGCGTTTACAGGTATAAAAGGCACAAG
GAGGAACCTATTTTGGTCAGAGCATTGGGAAGTAAATCACAAGGCAAAATAGATCTGTTGTTGTT
GTTGCGGGAGGAAGTATTAATAAGCAAATCAAATGCCTGTATGATCTCCAGTGTATAATTAGATC
CTAACTTGCAAATACATGTAG

SEQ ID. NO.: 72

pKVC96B:

ACTGGACCAAAATTGGTGTGTTAACCTGACTCTCTTGTATTCTAATGCTACAAGAAC
CTGAAAGTGTCTCTACAATGATGTAGCCCTGACAAGACATGTTGGCAGTGTATAAAATTAGGTAG
GATTGTGACTGATTGACCAATTGTGAAATCTTCTCAGTGGTAAGTGCATTCTAATAAAATTAT
GNAGGTGAAACAATCTTGGNGCAATGGACCACTCATGCATCCATCCC

SEQ ID. NO.: 73

pKVC97B:

AACAGCCCCACTATCAGCACCCAAAGCTGAAATTCTTCTTAAACTATTCTTGCACATACCAGNAAG
CAACCCATAACTTCATAATTGATATACCCATACTGTGGCTGGCCAGTATGCTTAT
TTCCACAAAAAAACCAAGTAANAAACCCCAAGTACCAACACACAAATGTAATCACTCT
ATTAACCACANACCCACCCAGGTTGGTATTATACACCCATGGNCATAAGGACATACTATGT

SEQ ID. NO.: 74

pKVC103rB:

CGCTGCATCTTCTATGCTCTCCCTGCTGGCGCTGATGGGAGATACAGACAGCAAAACGGACAGCTC
GTNTCATGATCGACTCGGACCCCTGCGNCTGCATGAGGCACCACTATGTTGNATTCTATCAGCTCACC
CGTTGNTACAAGTGTAGNCTAAAGGAAGAATAGTGGGAGTCTCTGTGAGACCTATCTGAATCCCGN
NTGGCCCTGAGNTCCAGAGGGNCCTGGTGTCCCATGCCCTAGCAGGGTCAAGNAAGGGGCCGCN
CATGGCAGTCCTGGNCAGNAGNAANGANTGGNCCAACCCNNTGGTCCCAACCCA

Fig. 5K

SEQ ID. NO.: 75

Title: GENE SEQUENCES ASSOCIATED WITH NEURAL PLASTICITY AND METABOLISM RELATED THERETO
Inventor(s): Max Cynader et al. Serial No. 09/301,507 Docket No. 230018.401c1

pKVC103:

CGGCCACTGGTCATCAGATGAGCATTTGTGTTGAAGCTAGTAGCTATAGAAAAGATAGTTGTGCC
CTGATAAAAGTAGCTTTAAAAAAAGTTGGGTTAGTTTACATTCAAGGGCTTATGAAGAGATGCAA
GTCAGGATAACATAGGCTTGATTCTGGCAGCTTAATGAGTCITCACGAGGCCTGAAGGTGGAAGGGTG
GAGTCCAGTAACCTGCTGGAGCAGTGACTCCCAATTCTGACGATCTAACATTGTTCTGAAGGACG
TTGCATCTGGACACAGGAACGTGCTGTGGGTGCCTGGCAGTGTCTGAGTAGACTT

SEQ ID. NO.: 76

pKVC104rB:

CGCTGCATCTTTCTATGCTCTCCCTGCTGGCGCTGATGGGAGATAACAGACAGCAAAACGGACAGCTC
GTTCATGATCGACTCGGGACCCTCTGCGTCTGCATGNAGGGCACCACCTACTGTTGGATTCTTATCA
GNNCAACCCGCCNGNTGAAAGATGNTAGACTCCANAAGAGNAAGNAATNAGTTGGGNAGGTCTTT
CCTGCTGNAGAACCTAATTCTGCAATTCCCC CCCCGCCCCCGG

SEQ ID. NO.: 77

pKVC107fB:

ATTACAACATCTAGAAGGCTTCATCATACGATAAAAGCTCAGTTACAAATGTGCATCCTAGTATTG
GAAAACATAACCTCTTAATGTAACATGAAAAAAATTATTTCTATGTCCTTTCAAGGACTCCTCTT
TTATTTTTGGTATTTATCTTATGGCCACCTGGCCTTCTGCCAATGTGTTATGCAGTGAAATG
CTTGTGGCAGAGGATGCCCTACAGCGAAAAATACCGCGCACATGGGTTCCCAGGTA

SEQ ID. NO.: 78

pKVC107rB:

TTTGTTTATCGTTATTAGTACATGGCGTCGGAGGATGATTACTCATCATCTGTATTACAG
AGGTAGAGCATAATGCCATCTGCTAGGGATCCAGTTGACAGCACCTAAACACTAGTCTGCTCACTC
ACCCTATAGGGCTGNTCATCCACTTGGGATGGAAGACAACAGTGCCTTAATGCAAATGGCCCCAG
GCAAGGAATTAAACCATTGGCTCATGGCTCATGAAGGAATACAGNCNNATTAAANGCGNGGCAGGCAGG
AAGCCTTNGCTA

SEQ ID. NO.: 79

pKVC124:

CTAAAGTGGCTAACAGTATACCCACCCCTAGCCGGAACCTGGCTCATGCAGGAGCATCCGTAGACCT
AACTATTTTCACTACACCTGGCAGGTGCTCTCCTCAATCTTGGTGCTATTAAATTCTTACTACTA
TTATTAATATAAAACCTCCTGCCATGTCCAATATCAAACACCTCTATTGTGATCAGTCTTAATCA
CTGCTGTCTTACTACTTCTACTCCAGTCTTAGCAGCGGGATCACTATATTATTAACAGATCGAA
ACCT

SEQ ID. NO.: 80

pKVC24B:

GCCGGGAGCCGGCTTGGCGNGGGCGGAGAGGCCCCGGACGGTCGAGTGCTTCTCTGACTGGTG
CGAGAAGAACATTCTATATACTTCCAGGTGCTTTATATTCCCTTGAGAAGAAAATAAAATTATGA
ACTCAGGATTTGCAAGTATTCTGTTCTCTGGAGTAGGTAGTCCTCTTACCCAGCCACT
TTCCCTATTCTGAAATGTGGATCTCTTCTACATGTTTACCTCATGATTGGATTGGAAAAG
CTGTTTCTTGGTCCACTTTCAAGATTCAACATAGAGAAGCTCCTAGGATGCAGTCGTTCTG
AAGCGCTTCCAGGAAAGAAAGAAACT

Fig. 5L

Title: GENE SEQUENCES ASSOCIATED WITH NEURAL PLASTICITY AND METABOLISM RELATED THERETO
Inventor(s): Max Cynader et al. Serial No. 09/301,507 Docket No. 230018.401c1

SEQ ID. NO.: 81

pKVC25:

AGGTCTTAANCCAACCCCGTCCCACCCACAGGGTNCCAGCGTGGTACTACAGGCAGCCCTCCCTATG
TCGGGTCTAGAACGCCCGCAGCTGGAACGAAGGGAAAGCTAATTACAGTGTCTTCCTTGCACTGAC
CNNCCCCCCCCCGCCCCCGCACCAGTCAGTCCAGGAGGGACTTGTAGCCGTAGCCCATCTT
CCCCACTATCCTGGCGTGTGGGCTCGTGAATGCCTCTAGCAAATCACTAGAGTGCAGTGACCCAG
CCTCCTTCCTGTGCCAAGATG

SEQ ID. NO.: 82

pKVC40B:

GCAACAAGGAATGAGACCCCCAATGCCGCCTCATGGTCAGTACGGTGGTCATCATCAAGGCATGCCAGG
TTACCTCCTGGTGTATGCCACCGTATGGCAGGGACCGCCAATGGTACCCCTTACCAAGGTGGGCC
TCCTCGACCTCCGATGGAATGAGACCTCCTGTAATGTCGCAAGGTGGCCGTTACTGATCTTACTTCAT
CCAATCTAATAGGTTTGAGATTAAACCTTTCTCAACTTGTGCTGGTTATATAGCCAAGCTTCCGTC
AATAAGGCTTATTGTTGACTTTAACAAACATTATATTACACATACCAGGGACTATTGGACAATTATT
TTACAAGGGAAAATT

SEQ ID. NO.: 83

pKVC43fB:

CCTGGCTGCCTGTGCCTCAACCCCACTCCCAGGGAGACCAAAAGCCTTCATACATCTAAAATTGGGGGG
GGGGGGGGGGACAAAAAAGGGGGCCCACGATGGCAGACCATTGAAATAAACAAAAAGACCAAGTTTT
AAGGCGAGAGTTAAAAAAAAATTGGACTACATAATTACACCAAGGCAATGTTATCACCTGCGCCTG
TTTGGACTTGGCGGGACTGGCCTCTCCTCAGGGGGAAATGGGTGGCTTTGGGAAGGCAAGGGA
CTTCCTGTAAACAATGCATCTCAGGGTATTGGATGACTATTAAAAAAAAAGGGCAATGTTACAGTC
AAGGTCTGGCCCA ACCTTGGAACTTTGGGGGT

SEQ ID. NO.: 84

pKVC55B:

CCCAAACATCTACAAACACAACAACTAACACCAAGAAAATAAACAAACATTAGTCACCTTATAAAAGTAT
AGGAGATAGAAATTAACTTGGCGCTATAGAGAAAGTACCGCAAGGGAAAGATGAAAGATAAAATTAAA
AGCACCACACAGCAAAGATTACCCCTGTACCTTTGCATAATGAGTTAGCTAGAACACCTAACAAAG
AGAACCTCAGCTAGGCCCGAAACCAGACGAGCTACCCATGTACAATCTATTTCAGGGGTGAAACTC
CGTCTATGTTGAAATTAGTGAGAAGGTTTGGTAGAGGTGAAAAGCCTATGGCCTGGTAG
CTGGTTGCCCGAACCGGATTCTTAGTTCACCTTTAAACTTCCT

SEQ ID. NO.: 85

pKVC57B:

GCGGAAGCAGTGTACCTCCAGCCTGCAGAGGCCCCCTTCCCCAGCCTGGCCCAGCTCCGGCCGGCCCC
GGGCTGGACTCCTCTACACGATTATTGACGTTTATTTGGTTCCCCACACCCCTCAATCTGT
CGGGGAGCCCTGCCCTCATCTGCTCCCTGGCCAGGAGTGAGTGACCCATGGCCTGGCGAAATTG
TCCTCCTCTTCTCCCCTCGCACTACAGTCCTGGTCGGGAGAGGGTGGCGGGTAGCTGTTGTGGTTAG
TGGGTTTGGTTGGTTTGTCTTCTTCT

Fig. 5M

Title: GENE SEQUENCES ASSOCIATED WITH NEURAL PLASTICITY AND METABOLISM RELATED THERETO
Inventor(s): Max Cynader et al. Serial No. 09/301,507 Docket No. 230018.401c1

SEQ ID. NO.: 86

pKVC60fB:

AAAGGGTGGGGCANTTGATGCTGGTTCTCCCTCGGTTCCGTAAATTCTTACTAGGGCTTA
TAATTCTAACTTCTGGTAAGTAGAATATAAAACACAATCAGGAACACTCTTCTTCAGTAG
GATGCAATTAGTCCAAGTTGGATGCTGGATAACTTGTCTAAAGATCTCCTCTCGTGGTCA
GTCAAACATTCAAACATGCCTATCTTATAAAACTTCATAGGATCTCCATGAGTCCATTATGTT
ATGAATTGACTCGTCTGTTCTGCATCAAACATCATAGGTGGATCACAGAGAGTTGCCATTG
TTCTCATTATTCTCCTCTCAGAGAGCCCATAATAATTTCAG

SEQ ID. NO.: 87

pKVC60rB:

GTTCCAGAAATTGAAAACAAAGAGAACACAAGAAAGGTTAGCGAGTTGGCAGAGGGAGCTGG
TCTTCAGCCACGATTGCTAGGAGCGAGCATGAGATTCTGAAATTATTGATGGGCTCTGAGCAGGA
GAATAATGAGAAACAAATGCGGCAACTCTCTGTGATCCACCTATGATGTTGATGCAGAACAGAGACG
AGTCAAATTCAACATGAATGGACTCATGGAAGATCCTATGAAAGTTATAAAAGATAGGCAGTT
ATGAATGTTGGACTGACCACGAGAAGGAGATCTTAAGGACAAGTTATCCAGCATCCAAAAACTT
TGGCTAATTGCATCCTACTTGGAAAGAAAGGTGTTCTGATTGTGTTTATATTACTACTAACCC
AGGAAAATGGGATTATTAAAGGCCTAGTAAGGAGGGATTACGGAAACCGCAGAGGAAGGAACCCGC
AGGCAATTGCCCTTGG

SEQ ID. NO.: 88

pKVC63B:

CCTACCCGGTTGGATAATCTCACATATTGTTACCTACTATTCAAGGAAAAAGAACCTTGGCTA
CATGGGAATAGTTGAGCCATGATATCAATCGGCTCTGGCTTATCGTATGAGCCCACATGTT
TACTGTAGGAATGGATGTAGACACACGAGCATACTTACATCAGCCACTATAATTATTGCCATTCTAC
CGGGGTGAAAGTATTAGTTGACTGGCTACTCTCATGGAGGTAAATTAAATGGTCCCCTGCTATATT
ATGAGCCTAGGCTTTATTTCCATTACCGTAGGAGGGCTAACGGGATTGTACTAGCAAACCTCT
TCACTAGACAATGTTCTCACGGCACATATTACGTGGGGGCCACTGTCACTATGGCTGTCAATAGGG
GCAGTATTGTTACAGGGGGTTCGTCC

SEQ ID. NO.: 89

pKVC64B:

GCAATCCTGGCTGGGGCCTGAGGCCCTCCCTGCTCCAGGCTGTATCTCTGCCTCTCCTCC
GGCCTCCTCAGTTGCCACTGCAATTCTGAGTTACTGTTATGCTAAGCATGACTCTGACTT
GTCACTGACTTCTCTGGAGCAGGTGGCTAGAAAAAGAGGCTATGGGTGGGGAAAAAAATGTTCTG
TTCTCACTGTAAGGCTGGTTTGGCTTCTGCCATGGATTCTCCCCCTGACCTCTCCCTCAGCA
ATTCTGCAAAGGGTAAAAATTAACTGGTTTNAACTACTGATGGACTAAACAACACAAAGGATG
CTGGGATGCTAATTGGTTAACTAAACCATCAAGGTTACCAAGTTGGATTGGTAACTGGTAAAT
ACAAGTA

Fig. 5N

Title: GENE SEQUENCES ASSOCIATED WITH NEURAL PLASTICITY AND METABOLISM RELATED THERETO
Inventor(s): Max Cynader et al. Serial No. 09/301,507 Docket No. 230018.401c1

SEQ ID. NO.: 90

pKVC66B:

CGTATGAGGCAGTCCCTGCTGCCCATCCCCACTGTCAGGTCTGGTCCGTGGCCAGAATGGG
GTGGAATTGGGTTGAGGGAGGGACAGCCTGGCTGACAATGATATTGGTGTAAATCACATTAAACCGAGC
CGGCTTCAGCTTACCTAACCCGGGAGGACACCACCTTGAGAAACCAAGCTGGAGCGACCCCTC
AGGCCCTGCAGGCCTTCAAACAGCCCTGGGTGGACCCCCACACCAGTCCTGTTAGCCAGCTAGGCCA
GTCTTCCTTCAGCACCAACTTTATCCTGGCAGGTTCTGTCAGGTGAAAGCTGGTAAAAGCGGGTC
CCAGCCAAGGGCTTCAGGTTCAGGCCAGCAGTAATTCAACGGTGGCAGGA

SEQ ID. NO.: 91

pKVC82B:

GCCACCTGACCCCTCTAACCCATGGCTGTCGATGACTACTTCTGGAACTTGNAAGCAAGCAAAG
AACCAAGTCAGCAGAGGGTAAACGATGGGGTTTGGCATGGATGAAGCATTGAAAGACCCAGTTGGGA
GAGAACAGTTCTAAATTCTAGAGTCAGAATTCAAGCTCAGAAAATTAAAGATTCTGGCTAGNCAGTG
GAAGNACCTGAAAGNAAAAGGTCTAATNAGGAGAAAGTCCCTCCGGAGATTCAAGGGAAAATATGG
GCAAAGNAATTCTGGCTCCCTGGAGGCTTCCCAGNTGCCAATCAAACCTGGGTTTCCT
NAAGGAGGCTNATGGATT

SEQ ID. NO.: 92

pKVC110

GAGAAAGACATAATGGTTATGGCATTGGCTTGAAACCAGTTAAAGAGGGTCGATTCTTCTTCTTA
TTTAATAGTACGTAAGTTGGCTTCAAATGTGTGGTACGGAGGAGGACATCcATGCAATCATTCAAG
ATTAGTTGTGGTTAATTCTACTATGCCACTTCTCGCTTGA TGGCAAAGCTTCT

SEQ ID. NO.: 93

pKVC134: Homologous to human alpha tubulin; Accession HSHA44G

CCGCCAGTGTGCTCTAAAGTGTGGTACCCCTGGTGGAGACCTGGCCAAAGTACAG
CGAGCTGTGCTGAGCAACACACAGCCATTGCTGAGGCCTGGCTCGC
CTGGACCACAAGTTGACCTGATGTATGCCAAGCGTGCCTTGTTCAGTGGTATGTGGGTAGGGCATG
GAGGAAGGAGAGTTCTGAGGCCGTGAGACATGGCTGCCGTGAGACATGGCTGCCCTGAGAAGGA
TTATAGGAGGTTGGTGTGGA

SEQ ID. NO.: 94

pKVC108: Homologous to Mouse Initiation factor eIF-4A;
Accession MMEIF4AL

TCTTCTCCAAAAACATAATCCATGTCCGTAAACCACTCAGCCTCCAGACCCAGAGGGCTCTCCCCA
CCAGCTGCCACCTCTAAAGAGGATTCAAGGGCTATAGTGTcACCCAACTCATTGCTGGACCAAA
TCTGGAGAACCC TTGAGCTAGGTGGCCcATGGGgTTGTCCcAGGTGGGGAGCAGGGAGAGAAAATG
GTAGCCATTTCACATTGTTGTATAGTATT ATTGATTCAAG

Fig. 50

Title: GENE SEQUENCES ASSOCIATED WITH NEURAL PLASTICITY AND METABOLISM RELATED THERETO
Inventor(s): Max Cynader et al. Serial No. 09/301,507 Docket No. 230018.401c1

SEQ ID. NO.: 95

pKVC105B: Homologous to Human mRNA for prolif. associated protein;
Accession HSPAG

GTCAGACACAACCTTCTGAATCCTCTNAGGANGGTGATCCAGTTCATGAANATTCTCTGTAAAATNANT
NTGGNAAACTANATNAGTNNGATNCAGGTCTNGAGNNCTCCTCCAGTGNCNTAAAAGTNCACAGAN
GNCAGGAACTNCTATCTGCATGCAGTCACCAGTTCTCATNC TCTANGCA

SEQ ID. NO.: 96

pKVC92B: Human Mitochondrial hinge protein; Accession HSHINGE
CCCAGCCTTCATGAGCTGGTCATCAGGATACTTCTTATGGGNTNGANCATGCCANTGCTTNTNCNG
TANATGTAAGTTCATGNCAACCNCATTTTTCTAGCCTNNGNCTNAAGGTNANTCGTCTCNTTANG
CAGCNGANNCAGTTGNAGTCTNTCAAANGNNCACAAANACCTAA

SEQ ID. NO.: 97

pKVC91: Homologous to Bovine NADH dehydrogenase; Accession MIBTXX
GGGTTAAGTGATAGGAGGAAGGGCTGAGTAGGTGGAGGgCTATTAGGGCATTTCCTGGTGTAAATG
ATGGGTTGATATTTAATGTGGTGTGTATTGCCTCGTTGAGTTATAATAAGTATGTAGAGGgaaGT
ATaGccCTGTAATGATGATATTAGTACCCATTAGGATAATGGTTATGTTGATCATGAGAAGGAGGCTA
TTACTAC

SEQ ID. NO.: 98

pKVC90: Homologous to Human hnRNP core protein A1; Accession HSRNPA1
ACAACCTTGGCCGTGGAGGAAACTTCAGTGGCGAGGTGGCTTGGCGGCAGTCGAGGTGGTGGAT
ATGGTGGCAGTGGGATGGCTATAACGGATTGGTAACGATGGAAGCAACTTGGAGGTGGTGGAAAGCT
ATAATGATTGGCAATTACAACAATCAATCTCAAATTTGGACCCATGAAAGGAGGAAATTTGGAG
GCAGAAGCTGGCCCTATGGTGGAGGCCAATCTT

SEQ ID. NO.: 99

pKVC86B: Homologous to Rat Ribosomal protein S27; Accession RRS27
GCGAAGGACCTCCTGCACACGTCCCCGGAAGAGGAGAAGAGGAAGCACAAGAAGAAGCGCCTGGTGCAG
AGCCCAACTCCTACTTCATGGACGTGAAGTGCCGGGTGCTACAAAATCACCACCGTGTTCCT

SEQ ID. NO.: 100

pKVC82: Human Carboxypeptidase E; Accession HSCARBE
ATCTGCCATTTAGACTAAAGGAAATATTCACGTGTTATTCAGATCCAGAAGTTTGAGTAATTCT
TGGCTTTAAAAACTAATGAAGTCCTTTAGTGTAAATGGTAACAGTGCCACATAGTGAATGCCACTGAA
AAGGTCAACAGCTACATTTGGTGTGAGCATTACCGCAAGACTACATAGTTCACTATAA

Fig. 5P

Title: GENE SEQUENCES ASSOCIATED WITH NEURAL PLASTICITY AND METABOLISM RELATED THERETO
Inventor(s): Max Cynader et al. Serial No. 09/301,507 Docket No. 230018.401c1

SEQ ID. NO.: 101

pKVC80: Homologous to Rat VAMP-2; Accession RNVAMPB
GGTCCTGTATCACTTCAATTGCATGACGTTCTGCAGGTGGTGGAGCCTGGCTTTGGGAGCC
AGAACCTTCTGGCCCCAGAACATACCCCCCTCTAGCCCCCTCTAGTCCAGTTGCCTCCCTGCC
TTTCAAACCTCTTGCCCCTCCCTCCCCCTCCCCCAGCTGGTGTGGAAGTGTCTCGGAG
TTCAGTGTATGAAGGACAATAGTTGACTGGAGTT

SEQ ID. NO.: 102

pKVC79: Homologous to Bovine Nuclear encoded ADP/ATP transporter;
Accession BTADTPMT
GGATGATTGCCAGAGCGTGACAGCGTCGCAGGGCTGGTGCCTACCCCTTGACACTGTCCGCC
GATGATGATGCAGTCTGGCCGGAAAGGGGCGGATATTATGTACACTGGGACGGTGGACTGCTGGAG
GATTGAAAGATGAGGGAGCCAAGGCTTCTCAAAGGTGCCTGGTCAATGTGTTGAGAGGCATGG
CGGAGCTTCGTATTGG

SEQ ID. NO.: 103

pKVC59B: Homologous to Rat scg10; Accession SCG1_RAT
ACGACTCACTATCAGGGCGAATTGGGCCCTAGATGCATGCTGAGCGGCCAGTGTGGAAAAGG
AGAGGCATGCCGCGGAGGTGCGCAGGAACAAGGAACCTCAGGTTGAACGTGCTGGCTGAAACGATGGAG
GGTATGGCACGCCACCATTAGTAAATCCCCCTGCCTATATTATAATGGTTCATGCGATATCAGTATG
GGAAATGTATGACATGGTTAAAAAGAACTCATTATAAAAACAAAAACAAAAACAGAACATC

SEQ ID. NO.: 104

pKVC55: Homologous to Human LAMP-1; Accession HSLAMP1A
AGCATGCTGATCCCCATTGCCGTGGGcGgCCTGCGGGGCTGGTCTCATCGTCCTCATGCC
ATCGGCAGGAAGAGGAGGCCACGCGGCTACCAGACGATCTAGCAGGGCTGCGACACGTC
CACTCCGGCTCCGCTCGTCCCTGAGCTTAGGTTGGCGTGGAGGGCGGACGTTCTGCAA
ACTGTTCAAATCTGCTTATCGATGTGAAGTTCATTTGCAACATTACTATGCACAAGAGTATT
TGAC

SEQ ID. NO.: 105

pKVC49B: Homologous to Chicken Contactin; Accession GGCONTAC
TTCATTATGAAAATATCAATAATATGTCATTAGTTACATTCAACTCTTGTATAAAATTAA
ACTTTTAATAATAAGTGAATGGGTGATTCCCCCTGGAGGGATGTCAACAGGCTAA
ATCTCTCATACTTTGGGAACGGATACTGTGT
TCATAAAATACAAACTCCTTGAAAAAGGGACAA
ATCTCTCATACTTTGGGAACGGATACTGTGT
AAGCCCTGTACAAAGTTGGGTTTCATTGTTACACTTTGGGGTTCCCTTCAAGGG
CCCC
CCTGTGGGGGGTTTTTTTATGCGGGCAACCAACTAA
ATTTTTTCCCAAATGGAATGCC
CCCC
TTTTTTTCTAATGTTTTGCAATAAGGGGGCAAAACGGGGGAGGGTTT
CCATGAAAAGGT
TCCTTAAGGGTGAAGGGGAACCACGCTTGGGGGGGGTTT
CCTTTAAGTTGTGGCCCCAGTAGGG
GGGAGAAAGCCCTCCCCCGGGAAACCAGGGTTGGTCCCCACGG

Fig. 5Q

Title: GENE SEQUENCES ASSOCIATED WITH NEURAL PLASTICITY AND METABOLISM RELATED THERETO
Inventor(s): Max Cynader et al. Serial No. 09/301,507 Docket No. 230018.401c1

SEQ ID. NO.: 106

pKVC47B: Homologous to Human 71 kD heat shock cognate protein:

Accession HSHSC70

CCTGAGAATAGGTCTAGCATTGTCACACAAAACATTGAAGGACCCAAATTGTAGCAAATTCCATG
GCAGTGAAGTTGAGCTGCTATAGTTAATAAACTGGGCATTCTTGATACTTGAATATGGAATATGTGCAC
AAGGAAAGTAAATACAACATTGCACTTATAAGCACTGTATTGTTAAGTGGAAATGCAATGTCTTAA
AATAAAACTGTATTAAAATTGGCGCCCCAAAAA AAAAAA

SEQ ID. NO.: 107

pKVC46B: Homologous to Human 71 kD heat shock cognate protein:

Accession HSHSC70

CCTGAGAATAGGTCTAGCATTGTCACACAAAACATTGAAGGACCCAAATTGTAGCAAATTCCATG
GCAGTGAAGTTGAGCTGCTATAGTTAATAAACTGGGCATTCTTGATACTTGAATATGGAATATGTGCAC
AAGGAAAGTAAATACAACATTGCACTTATAAGCACTGGTATTGTTAAGTGGGAATGCAATGTGCTTA
AATAAAACTGTATTAAAATTGGCACCAA

SEQ ID. NO.: 108

pKVC35B: Homologous to Human Vacuolar proton ATPase channel:

Accession HSPCHSUCA

CTTAGAGGACACACACNCACGGGGCCGCCGCCCCCAGTAGTCGGTCTTGTAAATGCGCAGTGTCTA
GTGCCCGTTGCTGCTACCCGGCCTCGCCCCCGCCCCGTGCCGTGGACATCCGGGCCCACCTCC
TTACCCATCCGGGCTCCGGCCCCACTCATCTGCCCTAGAGCGCTCTGTAGAAGGGTGAATTAGAGTT
GTATTCTCTCACTGGATGTTCTTATTATA AAGATTGATCTGTTC

SEQ ID. NO.: 109

pKVC27B: Homologous to Rat Cytoplasmic Succinyl CoA synthetase:

Accession RNGLTA

GCGACACGTTCTGTCATTATGTTCTCCTCTTGTGCTGCTGCCATCAATGAAGCTGTTGAGGCG
GAAATGCCCTGGTTGTCATTACTGAAGGTATCCCACAGCAGGACATGGTGCGGGTCAAGCACAAA
CTGCTCGCTCAGGGAAAGACCAGGCTGATCGGGCTAACTGCCCTGGAGTGTCAATCCTGGAGAACATGC
AAAATTGGCATCATGCTGGCCATATTACAAGAAAGGAAGAGTTGGTATTGTGTCCAGATCTGGG

SEQ ID. NO.: 110

pKVC22: Homologous to Human c1q beta isoform; Accession HSC1QBR

GGAAAGATGGATTGATGAAACACTGCATTCACAGCAAAGACCTCAGTCAGACAAACACAGGGG
ACCAAGTGGATTCAGGTGTGGTCAAACACTCTGGGATCACAGTGGGATACCACCTCAGGGCTGGTGA
CAGATTCAAGGACCCCTCTGGCACACCCGGGACCCCAGGGATAAAAGGAGAGAACAGGGCTGCCAGGGCTG
GCTGGAGACCATGGCGAGTTGGGGAGAAGGGA GACCAGGGATTCTGGAATCAGAAA

SEQ ID. NO.: 111

pKVC22B: Homologous to Human Phospholipase A2; Accession HUMPHPLA2

TTCCAGACGGGAGATTGATTGGAAAAAAAGTAATGTGTTCCATTAAAATTGGTATATGGCATT
CTGACTTAGGAAGCCACAATGTTTGTGTTGGCCCATCATGACATTGGTAGCATTAAGTTGTGC
TTCCAATCACTTTGTGTTAAGGATTCTGATCTGTTAGCCTGCCTCAATTGATCTTAT
TCTTCTATTGTCAGGTGTACAGGATTACCTT TTTAGCCTCTGTCTT

Fig. 5R

Title: GENE SEQUENCES ASSOCIATED WITH NEURAL PLASTICITY AND METABOLISM RELATED THERETO
Inventor(s): Max Cynader et al. Serial No. 09/301,507 Docket No. 230018.401c1

SEQ ID. NO.: 112

pKVC21: Homologous to Xenopus *nrp-1b*; Accession XLNRP

ACCCCTTCTATGTTTATCTAATTaTTTGTTGTTAATATGGTAATAATTAAAAGTCAGGTAA
TTTTAAATATTAAAGATTCTGATTATTGAGCTTACTGCCACACGCTTATGTAATGAAAGTA
GCACCATGGTGAAGTGAACAGTTGCTCAGTTGTAACAGTTTGATTATTCTTCTTGACCTCT
TTCCCTTATTGTCCTGAACCATAGCAAAGGATACTGCATCTTAATAATTGAGTGCTGAGGTTATT
GAaGTTATAT

SEQ ID. NO.: 113

pKVC18: Homologous to Human Cytochrome oxidase I; Accession MIHSCG
GTTATATTGACTCCTACAAACATAATCGTAAAGTGAATCTTGCTCAAGTGTGTCAGGGTATATCCT
GAGAAATAGGGGGATCAATGGACGAAGCCTCTATGATAGCGAATACTGCTCCTATTGACAAGACATAG
TGAAAATGGGCCACTACGTAATATGTGTCGTGAAGAACAAATG TCTAGTGAAGAGTTGCTAGTACA

SEO ID. NO.: 114

SEO ID. NO.: 115

pKVC12B: Homologous to Human 90 kD heat shock protein;

Accession HSHSP90R

ACGCTCGTTTCCAAAGAGAAGAGCGTTAGAGTAGCGAAATCGAAGGCTGCTTAGGCGCATTGT
AAAGCTTGGGAAATAACTCCACAAGTTCGTGAGTGGAAATGTAGTGTGCTGAAACACATTCTGCTT
TAAAAGTTGTAACAAATACAAACAAATTAAAAAAAGCTCTGACAAATGTTTGTGTGGGAAGCGGGG
GTTCCAAAATACAGGGCGGCC

SEO ID. NO.: 116

pKVC10B: Homologous to Human Cytoskeletal gamma actin:

Accession HSACTCGR

Accession: HSAC100K
TTGTCATCTCTTCAAGAATTGACAACAGATTTGGTTTCTACTGTCATGTGGAACATT
AGGCCCGAGCTTGGCTCTTGTGCGAGGAAAATAAA

Title: GENE SEQUENCES ASSOCIATED WITH NEURAL PLASTICITY AND METABOLISM RELATED THERETO
Inventor(s): Max Cynader et al. Serial No. 09/301,507 Docket No. 230018.401c1

SEQ ID. NO.: 117

pKVC9: Homologous to Human v-fos transformation effector; Accession HSFTE1A

GCATCTGATGGCCTTAAGGGCGTGTGTTGAAGTAAGCCTGGCTGATTTGCAGAATGATGAAGTTGCA
TTTAGGAAATTCAAGCTAATTACTGAAGATGTTAGGGCAAAACTGCCTGACTAATCTCCATGGCATG
GATCTTACCCGGGACAAAATGTGCTCCATGGTCAAAAATGGCAGACCATGATTGAAGCTCACGTTGAT
GTCAAAACTACCGATGGGTATTGCTTCGTCCTTTGTGTCGGTTTACTAAAAACGCAACAATCAG
A

SEQ ID. NO.: 118

pKVC6B: Homologous to Chicken Amphiphysin; Accession GDAMPHIP
CCTTCCAGAACCCCTGAGGAGCAGGATGAAGGCTGGCTCATGGCGTGAAGGAGAGTGACTGGAACCAGC
ACCTAGAGCTGGAGAAATGTCGGGCGTCTCCCCGAGAACTTCACCGAGCGGGTCAGTGAGGGCAGC
AGCTGCTGAG

SEQ ID. NO.: 119

pKVC6: Homologous to Human TAPA-1; Accession HSTAPA1
TCTACGACCAGGCTTGAGCAGGCCGTGGTAGACGACGACGCCAACATGCCAAGGCCGTGGTAGAAGA
CCTTCCATGAGACGCTCACTGCTGTGGCTCCAGCACGCTCTCCGCGTGAACCACCTCATTCTCAAGA
ACAACCTGTGTCCTTCAGGCAGCACTGTCACTCAGCAACTTCTCAAGGAGGACTGCCACCAGAACAGATCG
ATGACCTCTCTCGGGAAAGCTGTATCTCATTG GCAT

SEQ ID. NO.: 120

pKVC4B: Homologous to Rat alpha internexin; Accession #RNINTLAA
CACCTAAAGAGTTGCCAGGTCTCTGTCACACATCTCCATTACAACAGATAGGGTGTGATGCTTTACT
AAACTTTCTTATCCTAGGACCTGCTGCAATGGTTCAAGGAACTGGAAAGATGCTTCTCTTCTCCTT
CCCTCACTCCATCCCTGTCTTACTCCTCAGACTTCCTGAAAACATTAGTAAGATAAGAATTAAAAGT
CACACGAATCCAC

SEQ. ID. NO.: 121

>pKVC154

ATTGGCTCAGTGGCAGAGCGCTGCCTAGGAAGAGCAAGGCCCTGGGTCGGTCCCAGCTCCGpoly
(A)

SEQ. ID. NO.: 122

>pKVC159

GGGAGGAGGAGGAAGAGGAGGAAGGGAGGAGGAGGAGGAGGAGGAGGCTGCAAAGGCTCTGGCTCCTCTpoly
(A)

SEQ. ID. NO.: 123

>pKVC151

GTAATTATTGGCTCAACTTCTAATTGTCTGTCTACTACGACAACATAAAATCCACTCACATAAAA
CATCATTCCGATTGAAGCCGAGCATGATACTGACACTTCGTAGATGTAGTTGACTATTCTATAC
GTTTCTATCTATTGATGAGGATCCTpoly(A)

Fig. 5T

SEQ. ID. NO.: 124

>pKVC158

GATTTGGAGAACGCTTCGCATAAAACGAGAAGTACGCTCAATTCCACTCCTCAACTAACCTAGAAT
GAATGCATGGATGCCCGACCCCTACCAACACATTGAAGAACCTCCTACGTAAAGTTAAATAAGAAA
GGAAGGATTGAAACCCCTACAACCTGGTTCAAGCCAATTCTATAACCATTATGTCTTCTCAATpoly
(A)

SEQ. ID. NO.: 125

>pKVC160

AAGGATAATGCTGTTATTAAAAATATACTCAGGAAGTCAGGGTATTGATGCAATTACATACGCAC
TGTTAGTCTGAAGTCCATTATTCAGCAGTTATATAATGTTCAGATCAAAGAGAAAGAAAACA
CTTACAGAGACCAGCAGTTGCTTACAGTTGGTCATGAGTCTGCTGTAGTAAAATAAAACTCCCT
CTTGCATTGCTGAAGAATGTCCTT

SEQ. ID. NO.: 126

>pKVC157

CAGCTCCCTAGTACTTACTATTATTCACTAATACTAACAAACAAAACAAACACACACAAGCACAATAG
ACGCCAAGAAGTAGAAACAATTGAACAATCCTCCCAGCTGTCTTATCCTAATTGCCCTCCCT
CCCTACGAATTCTATACATAATAGACGAGATTAATAACCCAGTTAACAGTAAAACATAGGACACC
AATGATACTGAAGCTATGAATATCTGACTATAAGACCTATGCTTACTCCTACATAATCCC

SEQ. ID. NO.: 127

>pKVC156

CCATGCTTGTGACAGACATACAGCCACTTCAACTAAAGCAAGCCTCTGCTTCTGCTACCTGCATGGA
GCCCACTGTGACACTCAGACCATCCCCGGTCACTCACTCGTGTGAGAATCTCAGTGAGAGCTGCC
TGTACGGACGGAAAGCCAACACAGCCACCTCTGACCTGGCTCCCCACAGCACCCACCCCTCC
CAGCTGCCCCGCTAACCCCCAATGTTATGTTACACTGTGTAATCCCCACTGCTGCCGTGTGGGTT
GTGTACGTGTCATGTCCTGGTTATAACTATGGTCGGTCGGGAAGGATTCTGTAATGCTGCTAA
GA

SEQ. ID. NO.: 128

>pKVC153

CCTAGACTCACAAGTAATACTAATATCTTATTGACCCATTATTGATCAACGGACCAAGTTAC
CCTAGGGATAACAGCGCAATCCTATTAAAGAGTTCATATCGACAATTAGGTTACGACCTCGATGTT
GATCAGGACATCCAAATGGTGAGAAGCTTAATGGTTGTTCAACGATTAAAGTCTACGTGA
TCTGAGTTGACCCGGAGCAATCCAGGTCGGTTCTATCTATTACAATTCTCCAGTACGAAAGGAC
AAGAGAAATGGAGCCTCCTTACCATAGTGCCTAACCAATTATGpoly(A)

SEQ. ID. NO.: 129

>pKVC152

GCTTCAATTACTAGTCACTTATATAAAAACACCTAATGGCTAAAACAAATAATGAACTAA
AAAATTGCGTTGGGTGACCTCGGAGAATAAAAATCCTCGAATGATTTAACCTAGACTCACAAGT
CAAAGTAATACTAATCTTATTGACCCATTATTGATCAACGGACCAAGTTACCTAGGGATAACAGC
GCAATCCTATTAAAGAGTTCATATCGACAATTAGGGCCCACGACCTCGATGTTGATCAGGACATCC
ATGGTGAGCTATTAAATGGTTGTTCAACGATTAAAGTCTACGTGATCTGA Fig. 5U

Title: GENE SEQUENCE ASSOCIATED WITH NEURAL PLASTICITY AND METALS RELATED THERETO
Inventor(s): Max Cynader et al. Serial No. 09/301,507 Docket No. 230018.401c1

SEQ. ID. NO.: 130

>pKVC161

AGAGATATCGAACCCCTACCTATTATTGGAGCCTGAGCAGGAATAGTAGGGACAGCTTAAGTATT
CTAATTCGAGCTGAACCTAGGACAGCCAGGGCACTCTAGGAGATGACCAAATCTATAATGTCATCGTC
ACAGCCCAGTCATTGTAATAATTTCTTATAGTAATACCTATAATAATTGGAGGCTCGGGAACTGA
CTTGTACCACTAATAATTGGAGCCCTGATATAGCATTCCCACGAATAAAACATAAGCTTTGACTG
CTTCCTCCATCATTTCTACTCC

SEQ. ID. NO.: 131

>pKVC162

GAGCTGTTGCCAGTGAAAGACAGCAAACATGGACACTCTGCACGTGCATCACAAAGCTAACAAATC
GAAATCTTGAATGCAGTCTGCTTAAGTCCAGGCAAGTGACAGCCATGTGTCTGCAGTGCTGTCA
CCACGTCTGCATTGTTGGAGCTGCTGCAGGGACACTGAGATGAGCAGGTTCTTGGAAAGAACTGTTG
TGCTCCTCAAAGCAGTGTTCAGATTTAAAGGTTCTAGCCTCCTAGTTCTATGTGGAACGTAGG
ATCCCCCTTCAAAATTAAAGTGCTTATGTGATCCAATTGGTCTACATTTT

SEQ. ID. NO.: 132

>pKVC36BR

CTTAGAGAAGGCAGGTCTTACAAACACTACAGAAAAGCCGTTGGACGTAA
AAATCCAAGGAGAAAGGAGTCATTAGGAAATGTAACATAGGACACAGAACG
CATGTTGTGTGATGGTCCCTCTCTCCGTGTGGTTCCAGAATATGCTCCTGAC
CCCAGAGCCGCCACCTGAGCGCGCACCGGGAAAGGTACAGACGACTTCAGGC
TTCAGGCGCAACGTC

Fig. 5V